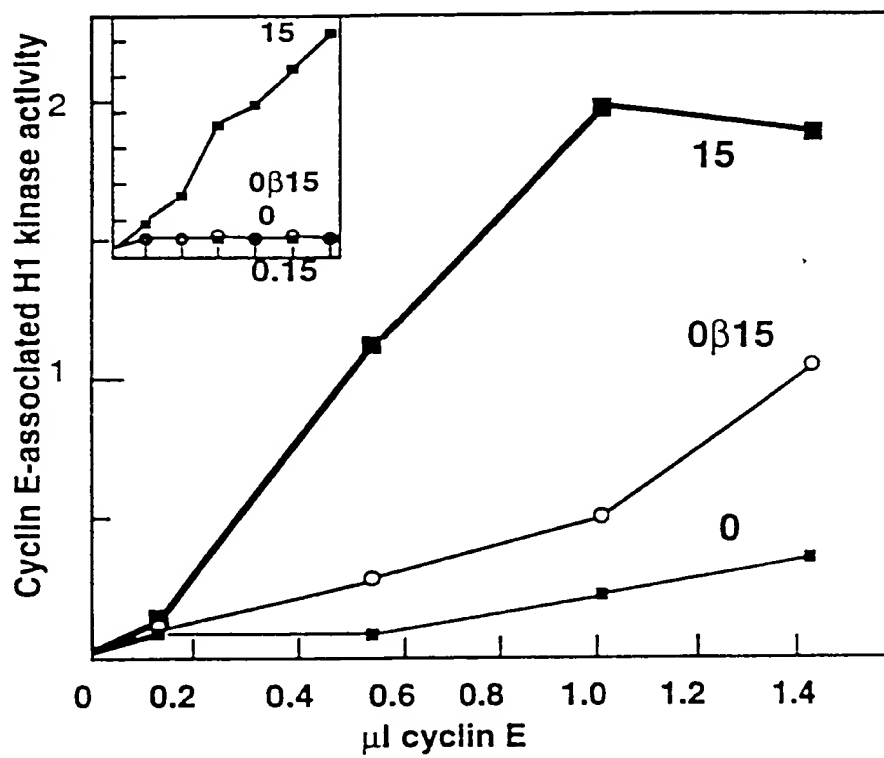


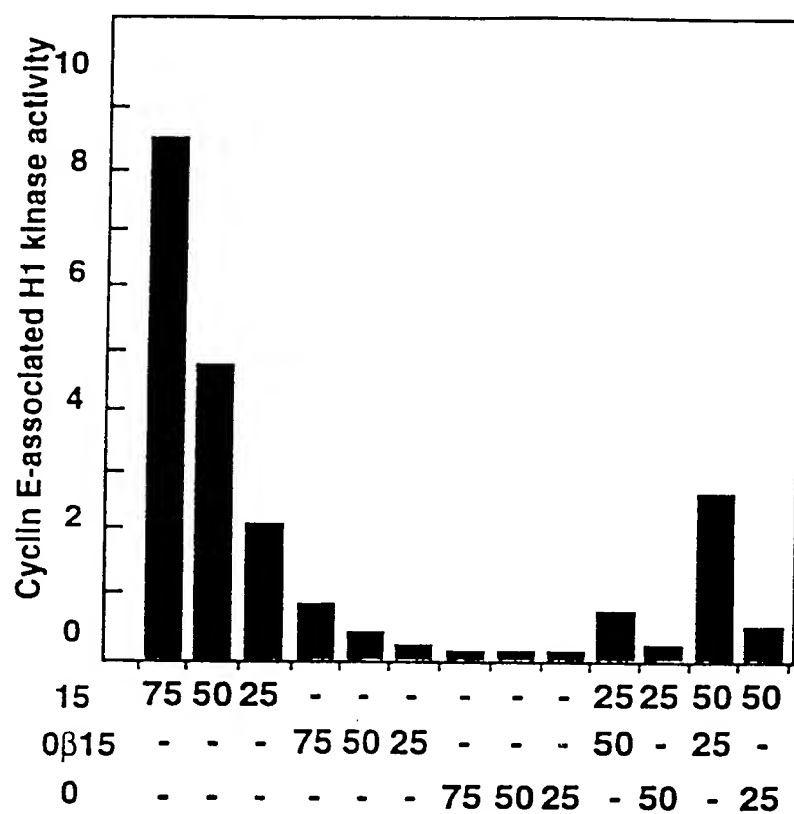
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FIGURE 1A



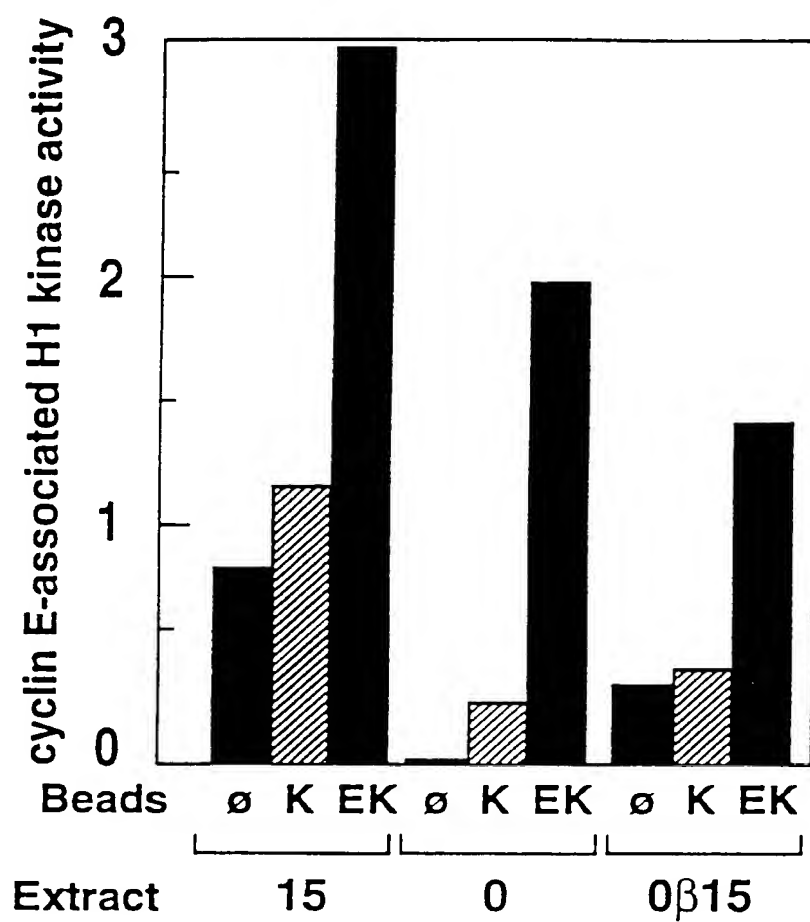
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FIGURE 1B



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FIGURE 2A



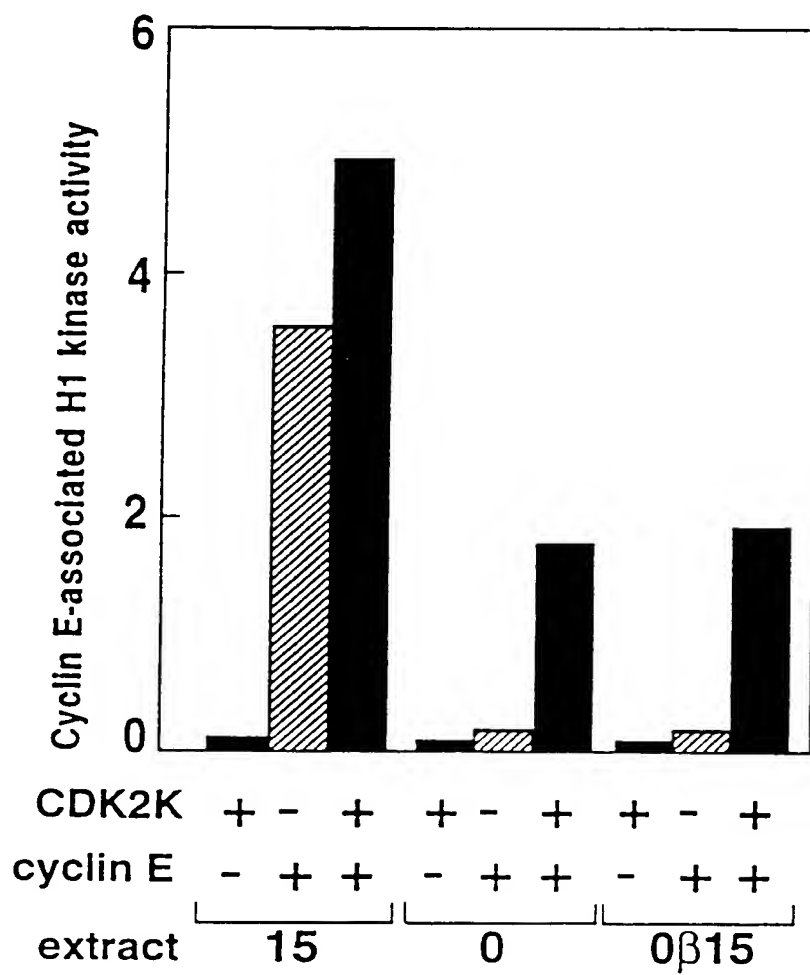
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FIGURE 2B



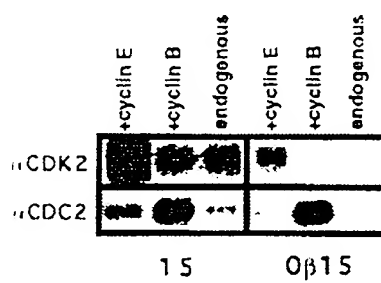
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FIGURE 2C



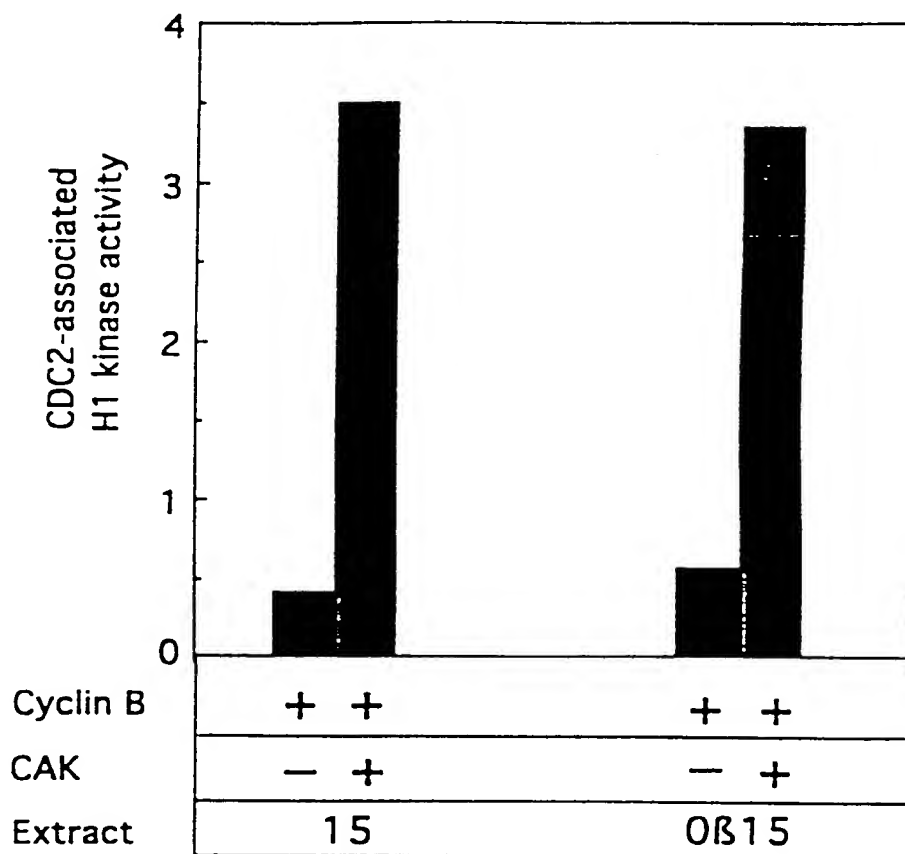
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FIGURE 3A



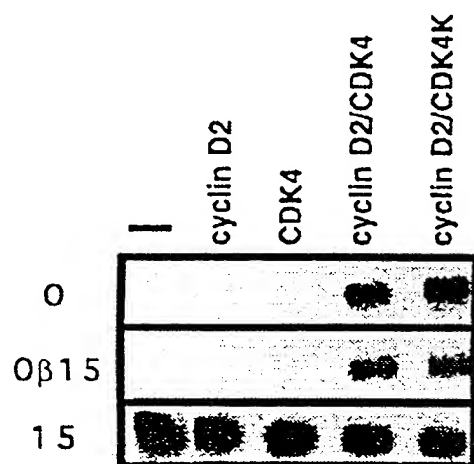
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FIGURE 3B



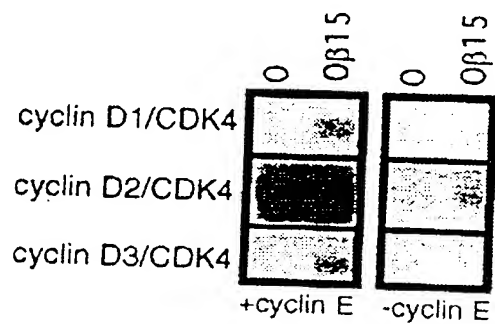
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FIGURE 4A



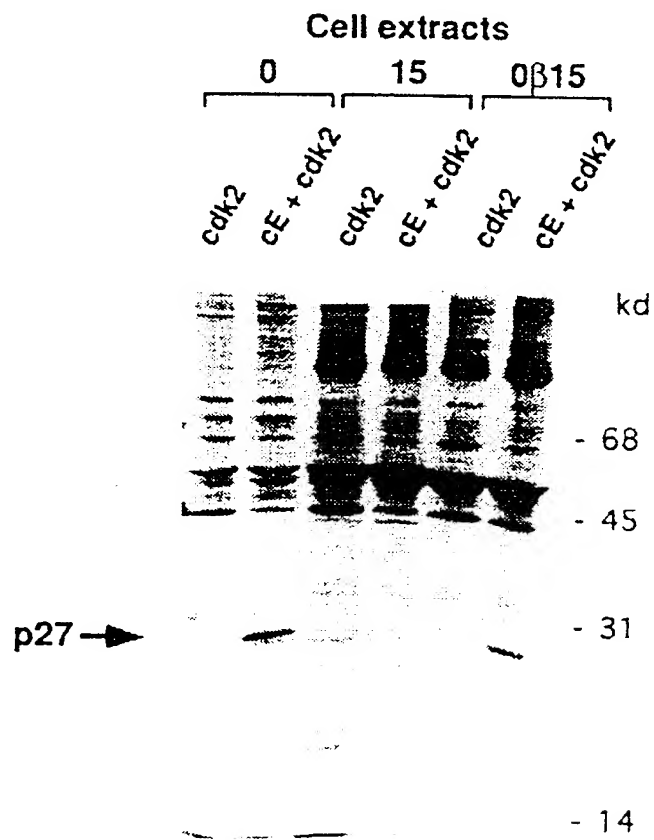
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FIGURE 4B



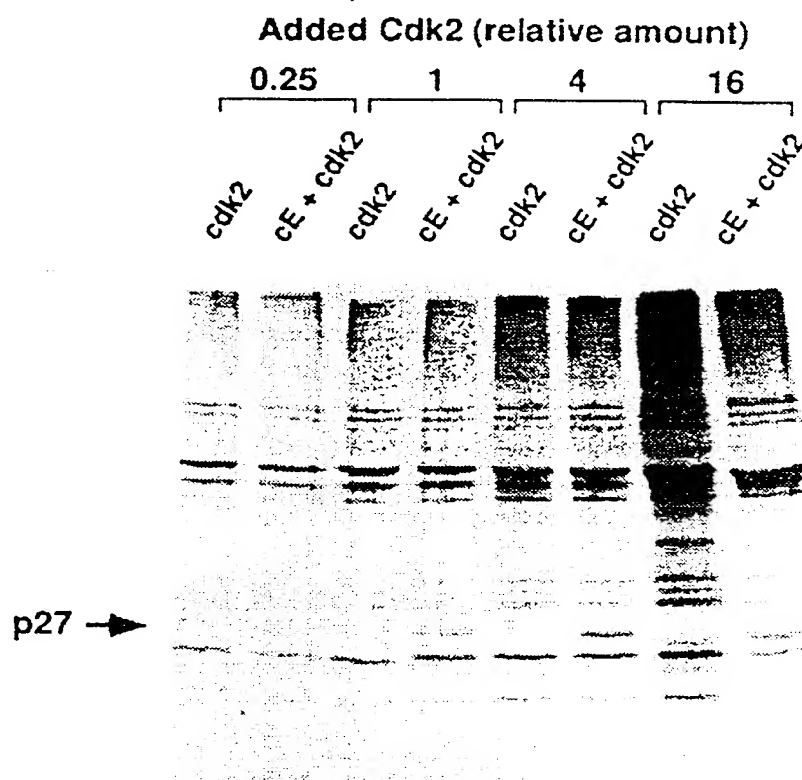
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FIGURE 5A



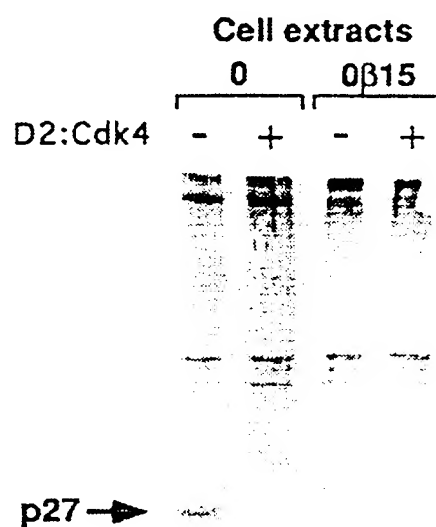
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FIGURE 5B



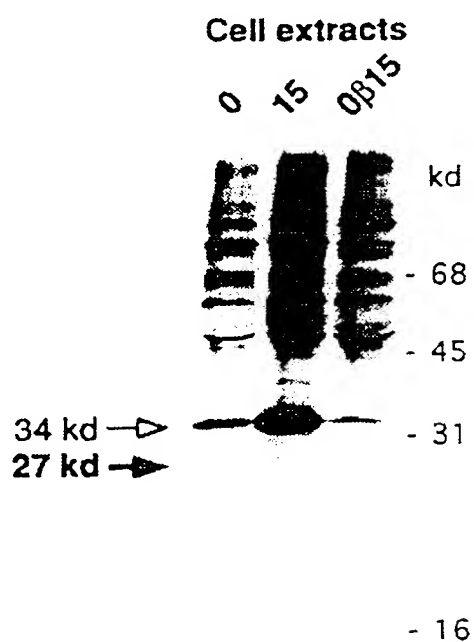
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FIGURE 5C



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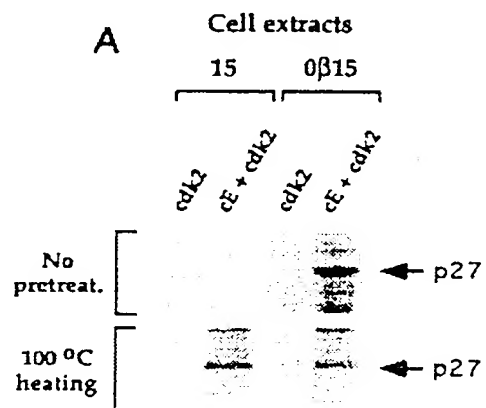
FIGURE 5D



anti-Cdk4 i.p.

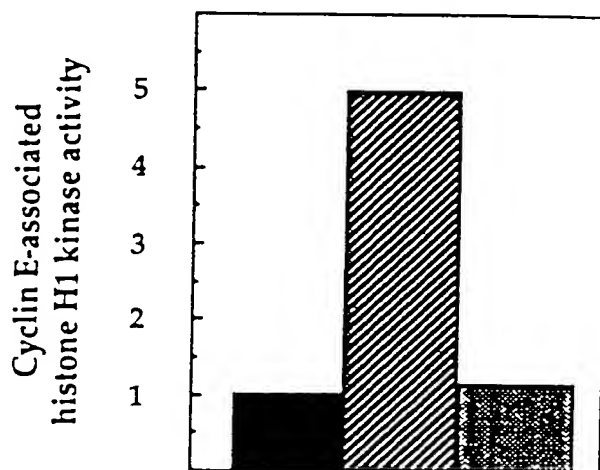
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FIGURE 6A



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FIGURE 6B

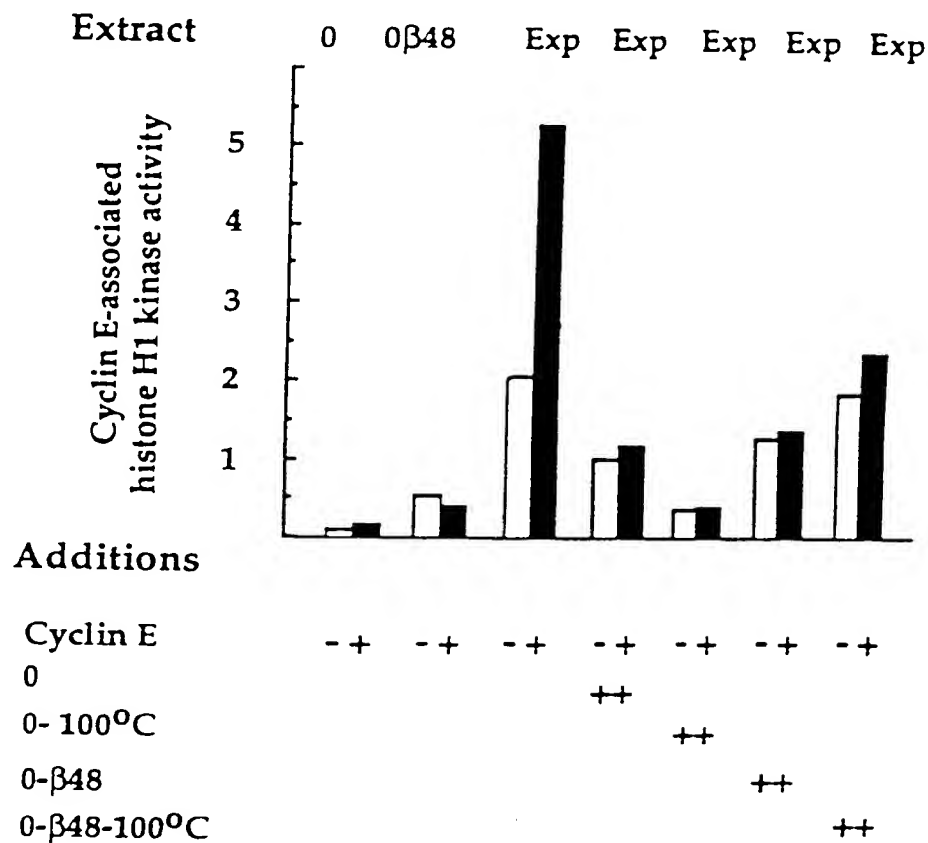


Additions:

100°C-Heated	-	-	+
Exp. cell extract			
Cyclin E	-	+	+

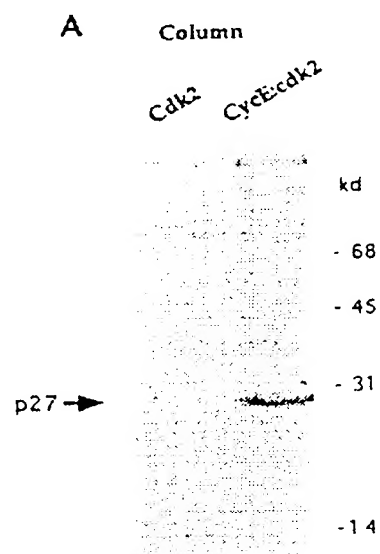
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FIGURE 6C



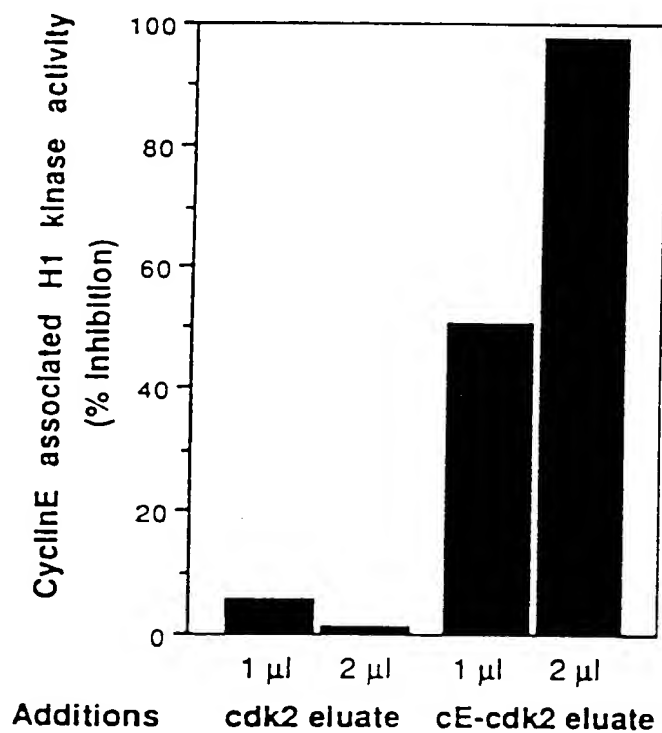
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FIGURE 7A



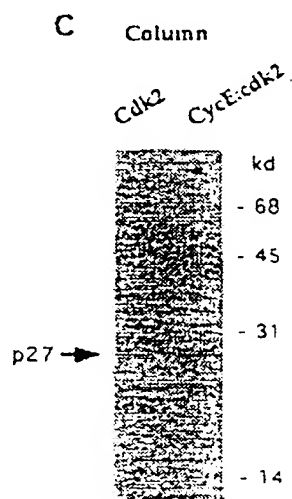
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FIGURE 7B



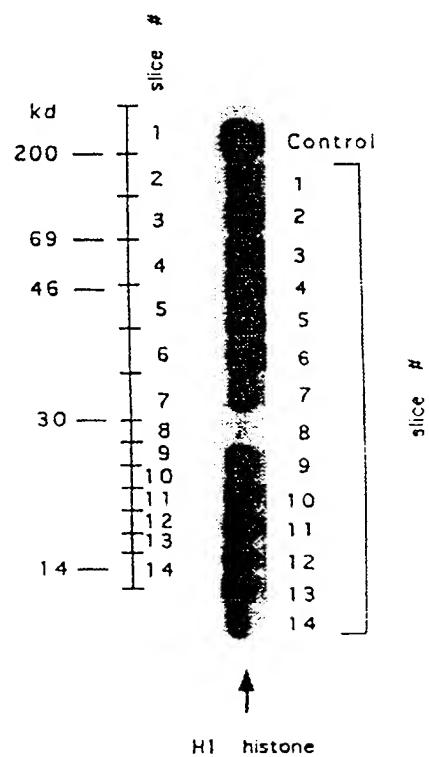
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FIGURE 7C



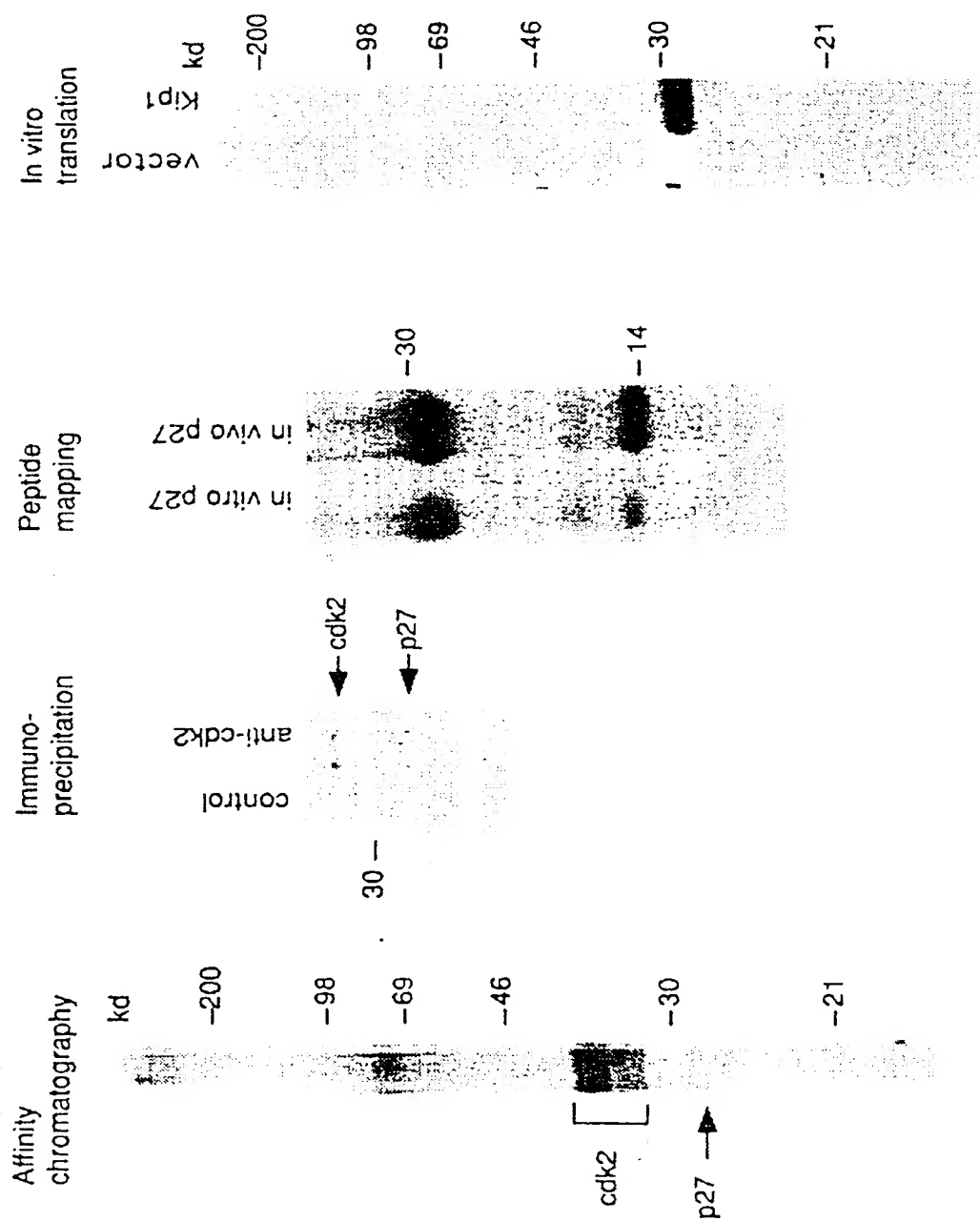
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FIGURE 7D



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FIGURE 8A



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FIGURE 9A

```

                                20                                40
mk kipl MSNVRVSNNGSPSLERMDARQAEYPKPSACRNLFGPVNHEELTRDLEKHRR
m kipl .....DH.....C.
h kipl .....H.....D.....C.

                                70                                90
mk kipl DMEEASQRKWNFDQNHKPLEGKYEWQEVEGSLPEFYRPPRPPKGACH
m kipl .....R.....R.....S...
h kipl .....

                                120                               140
mk kipl VPAQESQDVSGTRQAVPLMGSOANSEDTHLVDQKTDADNQAGLAEQCTG
m kipl .L.....S.....I.....R.....MP.SS.....P.
h kipl .....S.P.A..I.AP.....P...PS.S.T.....A.

                                170                               190
mk kipl IRKR PATDDSSPQNK RANRTEENVSDGSXXXXXXXXXXXXXXXXXXXXX
m kipl M.....AE...S.....PNAGTVEQTPKKPGLRR-QT
h kipl .....T.....S.....R...

```

FIGURE 9B

```

h kipl MSNVRVSNNGSPSLERMDARQAEHPKPSACRNLFGPVTHHEELTRDLEKHCR 11
h cipl MSPPAGDVRQNPCGSKACHLFGPVTHSEQLSRDCDALMA 39

h kipl DMEEASQRKWNFDQNHKPLEGKYEWQEVEGSLPEFYRPPRPPKGACH 101
h cipl GCIQEARERWNFDQVETETPLEGDFAWERVRGLGLEKLYLPTGPRGRDEL 119

h kipl VPAQESQDVSGSRRLPLIGAPANSEDTHLVDPKTDPSDSQTGLAEQCAG 131
h cipl GGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSFGGPGDSQS 139

h kipl IRKR PATDDSSSTQ-NKRANRTEENVSDGSPNAGSVEQTPKKPGLRRRQT* 151
h cipl -RKRRQTSMTDFYHSKRLIFSRRKP* 159

```

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FIGURE 10C

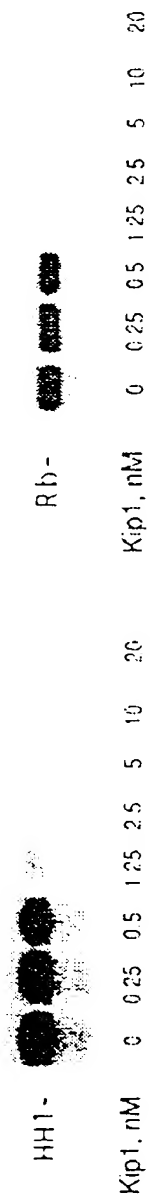
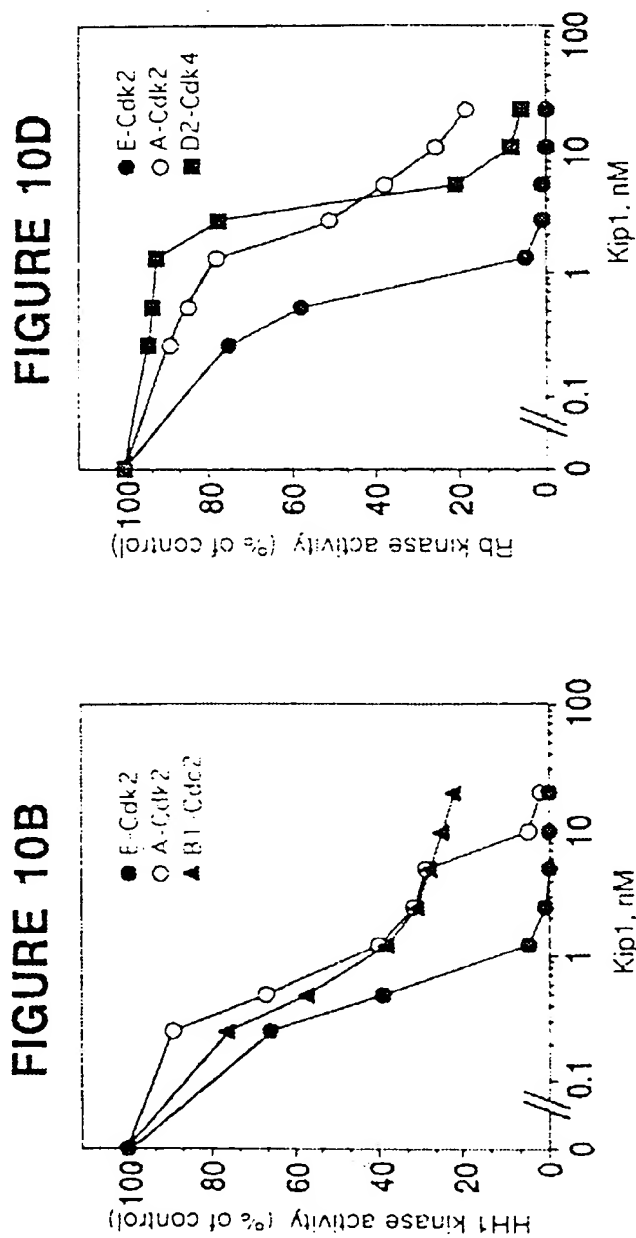
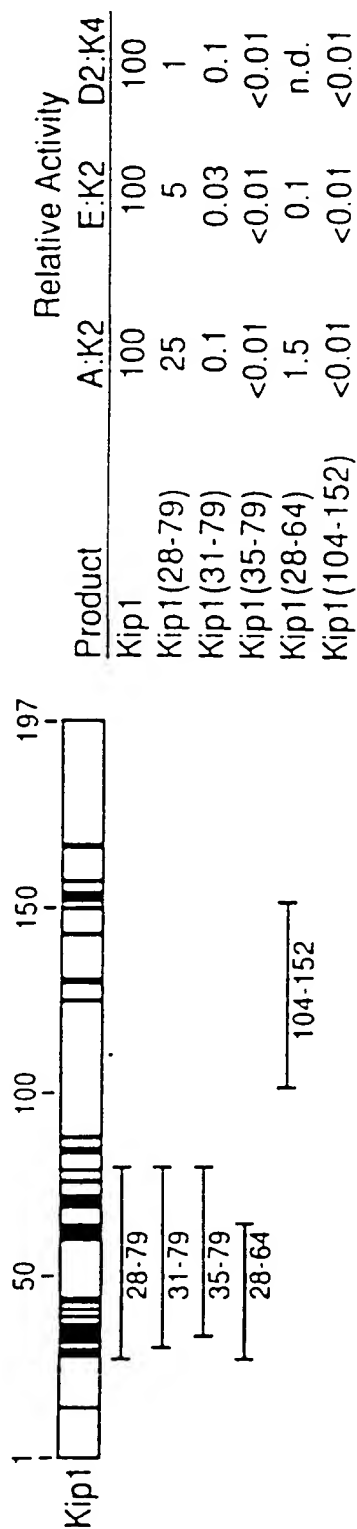


FIGURE 10A



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FIGURE 10E



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FIGURE 11A

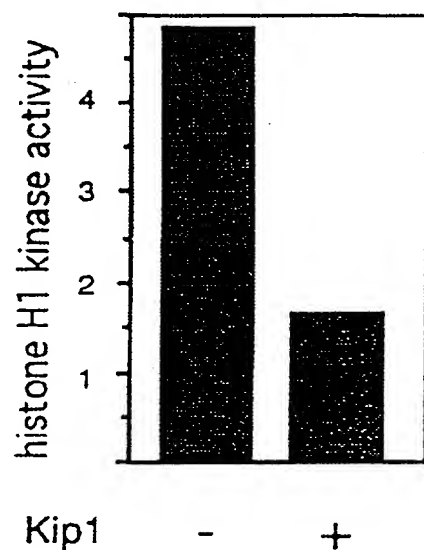
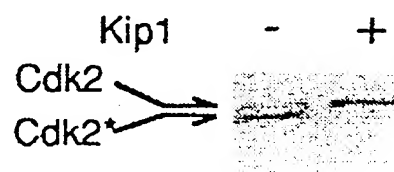


FIGURE 11B



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FIGURE 12A

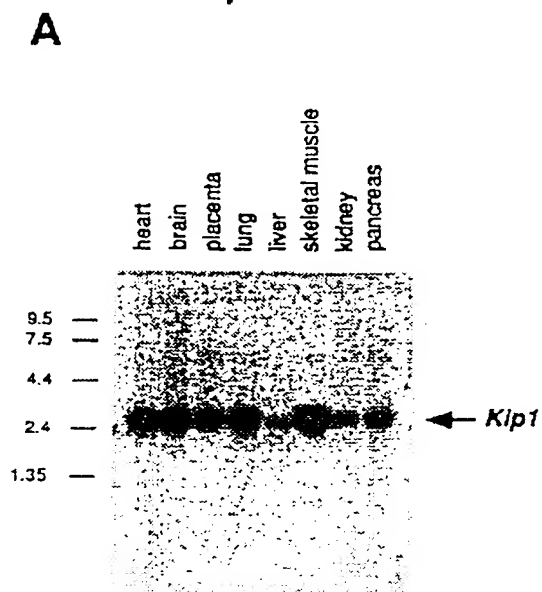
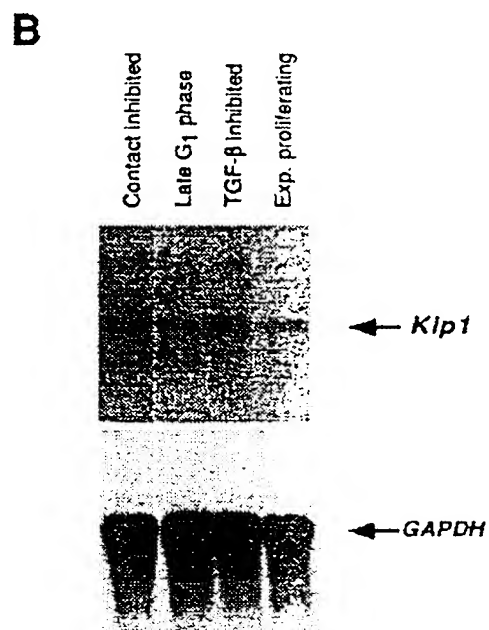


FIGURE 12B



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FIGURE 13A

ATG TCA AAC GTG CGG GTG TCT AAC GGG AGC CCG AGC CTG GAG CGG ATG	48
Met Ser Asn Val Arg Val Ser Asn Gly Ser Pro Ser Leu Glu Arg Met	
1 5 10 15	
GAC GCC AGA CAG GCG GAG TAC CCC AAG CCC TCC GCC TGC AGA AAC CTC	96
Asp Ala Arg Gln Ala Glu Tyr Pro Lys Pro Ser Ala Cys Arg Asn Leu	
20 25 30	
TTC GGC CCG GTC AAC CAC GAA GAG CTG ACC CGG GAC TTG GAG AAG CAC	144
Phe Gly Pro Val Asn His Glu Glu Leu Thr Arg Asp Leu Glu Lys His	
35 40 45	
CGC AGA GAC ATG GAA GAG GCA AGC CAG CGC ARG TGG AAT TTT GAT TTC	192
Arg Arg Asp Met Glu Glu Ala Ser Gln Arg Lys Trp Asn Phe Asp Phe	
50 55 60	
CAG AAT CAC AAG CCC CTG GAG GGC AAA TAC GAG TGG CAG GAG GTG GAG	240
Gln Asn His Lys Pro Leu Glu Glu Gly Lys Tyr Glu Trp Gln Glu Val Glu	
65 70 75 80	
AAG GGC AGC TTG CCG GAG TTC TAC TAC TAC AGA CCC CCG CGG CCA CCC AAA	288
Lys Gly Ser Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg Pro Pro Lys	
85 90 95	

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FIGURE 13B

GGC GCC TGC AAG GTG CCG GCG CAG GAG AGC CAG GAC GTC AGC GGC ACC	336
Gly Ala Cys Lys Val Pro Ala Gln Glu Ser Gln Asp Val Ser Gly Thr	
100	110
CGG CAG GCC GTG CCT TTA ATG GGG TCT CAG GCA AAC TCA GAG GAC ACA	384
Arg Gln Ala Val Pro Leu Met Gly Ser Gln Ala Asn Ser Glu Asp Thr	
115	125
CAC TTG GTA GAC CAA AAG ACT GAC ACG GCG GAC AAC CAG GCT GGC TTA	432
His Leu Val Asp Gln Lys Thr Asp Thr Ala Asp Asn Gln Ala Gly Leu	
130	140
GGG GAG CAG TGC ACT GGG ATC AGG AAG CGA CCG GCC ACA GAC GAT TCC	480
Ala Glu Gln Cys Thr Gly Ile Arg Lys Arg Pro Ala Thr Asp Asp Ser	
145	155
TCT CCT CAA AAC AAA AGA GCC AAC AGA ACA GAA GAA AAT GTC TCA GAC	528
Ser Pro Gln Asn Lys Arg Ala Asn Arg Thr Glu Glu Asn Val Ser Asp	
165	175
GGT TCC	534
Gly Ser	

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FIGURE 14A

ATG TCA AAC GTG AGA GTG TCT AAC GGG AGC CCG AGC CTG GAG CGG ATG Met Ser Asn Val Arg Val Ser Asn Gly Ser Pro Ser Leu Glu Arg Met 1 5 10 15	48
GAC GCC AGA CAA GCG GAT CAC CCC AAG CCT TCC GCC TGC AGA AAT CTC Asp Ala Arg Gln Ala Asp His Pro Lys Pro Ser Ala Cys Arg Asn Leu 20 25 30	96
TTC GGC CCG GTC AAT CAT GAA GAA CTA ACC CCG GAC TTG GAG AAG CAC Phe Gly Pro Val Asn His Glu Glu Leu Thr Arg Asp Leu Glu Lys His 35 40 45	144
TGC CCG GAT ATG GAA GCG AGT CAG CGC AAG TGG TGG AAT TTC GAC TTT Cys Arg Asp Met Glu Glu Ala Ser Gln Arg Lys Trp Trp Asn Phe Asp Phe 50 55 60	192
CAG AAT CAT AAG CCC CTG GAG GGC AGA TAC GAA TGG CAG GAG GTG GAG Gln Asn His Lys Pro Leu Glu Glu Arg Tyr Glu Trp Gln Glu Val Glu 65 70 75 80	240
AGG GGC AGC TTG CCC GAG TTC TAC AGG CCC CCG CGC CCC CCC AAG Arg Gly Ser Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg Pro Pro Lys 85 90 95	288
AGC GCC TGC AAG GTG CTG GCG CAG GAG AGC CAG GAT GTC AGC GGG AGC Ser Ala Cys Lys Val Leu Ala Gln Glu Ser Gln Asp Val Ser Gly Ser 100 105 110	336

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FIGURE 14B

CGC CAG GCG GTG CCT TTA ATT GGG TCT CAG GCA AAC TCT GAG GAC CGG	384
Arg Gln Ala Val Pro Leu Ile Gly Ser Gln Ala Asn Ser Glu Asp Arg	
115 120 125	
CAT TTG GTG GAC CAA ATG CCT GAC TCG TCA GAC AAT CAG GCT GGG TTA	432
His Leu Val Asp Gln Met Pro Asp Ser Ser Asp Asn Gln Ala Gly Leu	
130 135 140	
GCG GAG CAG TGT CCA GGG ATG AGG AAG CGA CCT GCT GCA GAA GAT TCT	480
Ala Glu Gln Cys Pro Gly Met Arg Lys Arg Pro Ala Ala Glu Asp Ser	
145 150 155 160	
TCT TCG CAA AAC AAA AGG GCC AAC AGA ACA GAA AAT GTT TCA GAC	528
Ser Ser Gln Asn Lys Arg Ala Asn Arg Thr Glu Glu Asn Val Ser Asp	
165 170 175	
GGT TCC CCG AAC GCT GGC ACT GTG GAG CAG ACG CCC AAG AAG CCC GGC	576
Gly Ser Pro Asn Ala Gly Thr Val Glu Gln Thr Pro Lys Lys Pro Gly	
180 185 190	
CTT CGA CGC CAG ACG TA	594
Leu Arg Arg Gln Thr	
195	

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FIGURE 15A

ATG TCA AAC GTG CGA GTG TCT AAC GGG AGC CCT AGC CTG GAG CGG ATG	48
Met Ser Asn Val Arg Val Ser Asn Gly Ser Pro Ser Leu Glu Arg Met	15
1	
GAC GCC AGG CAG GCG GAG CAC CCC AAG CCC TCG GCC TGC AGG AAC CTC	96
Asp Ala Arg Gln Ala Glu His Pro Lys Pro Ser Ala Cys Arg Asn Leu	30
20	
TTC GGC CCG GTG GAC CAC GAA GAG TTA ACC CCG GAC TTG GAG AAG CAC	144
Phe Gly Pro Val Asp His Glu Glu Leu Thr Arg Asp Leu Glu Lys His	45
35	
TGC AGA GAC ATG GAA GAG GCG AGC CAG CGC AAG TGG AAT TTC GAT TTT	192
Cys Arg Asp Met Glu Glu Ala Ser Gln Arg Lys Trp Asn Phe Asp Phe	60
50	
CAG AAT CAC AAA CCC CTA GAG GGC AAG TAC GAG TGG CAA GAG GTG GAG	240
Gln Asn His Lys Pro Leu Glu Gly Lys Tyr Glu Trp Gln Glu Val Glu	80
65	
AAG GGC AGC TTG CCC GAG TTC TAC TAC AGA CCC CCG CCG CCC CCC AAA	288
Lys Gly Ser Leu Pro Glu Phe Tyr Tyr Arg Pro Pro Arg Pro Pro Lys	95
85	
GGT GCC TGC AAG GTG CCG GCG CAG GAG AGC CAG GAT GTC AGC GGG AGC	336
Gly Ala Cys Lys Val Pro Ala Gln Glu Ser Gln Asp Val Ser Gly Ser	110
100	

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FIGURE 15B

CGC CCG GCG CCT TTA ATT GGG GCT CCG GCT AAC TCT GAG GAC ACG	384
Arg Pro Ala Ala Pro Leu Ile Gly Ala Pro Ala Asn Ser Glu Asp Thr	
115 120 125	
CAT TTG GTG GAC CCA AAG ACT GAT CCG TCG GAC AGC CAG ACG GGG TTA	432
His Leu Val Asp Pro Lys Thr Asp Pro Ser Asp Ser Gln Thr Gly Leu	
130 135 140	
GCG GAG CAA TGC GCA GGA ATA AGG AAG CGA CCT GCA ACC GAC GAT TCT	480
Ala Glu Gln Cys Ala Gly Ile Arg Lys Arg Pro Ala Thr Asp Ser	
145 150 155 160	
TCT ACT CAA AAC AAA AGA GCC AAC AGA ACA GAA GAA AAT GTT TCA GAC	528
Ser Thr Gln Asn Lys Arg Ala Asn Arg Thr Glu Glu Asn Val Ser Asp	
165 170 175	
SGT TCC CCA AAT GCC GGT TCT GTG GAG CAG ACG CCC AAG AAG CCT GGC	576
Gly Ser Pro Asn Ala Gly Ser Val Glu Gln Thr Pro Lys Lys Pro Gly	
180 185 190	
CTC AGA AGA CGT CAA ACG TA	597
Leu Arg Arg Arg Gln Thr	
195	